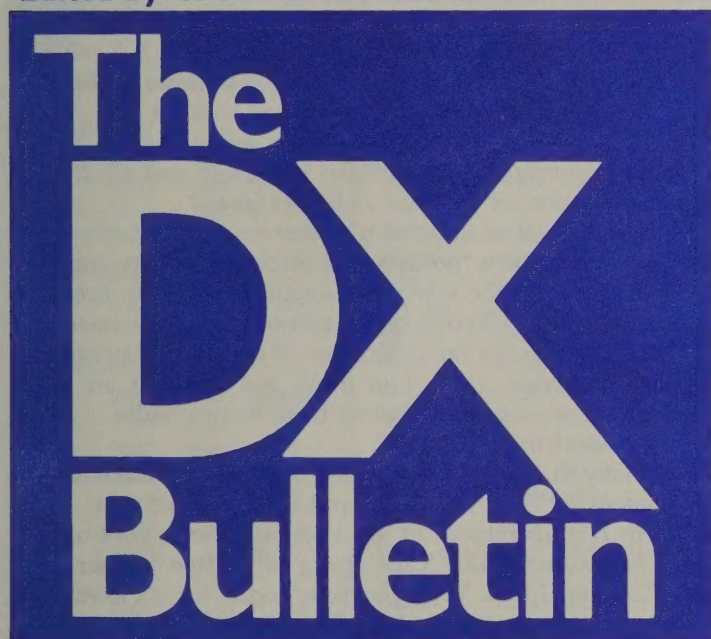


Wake Island - KH9 The California Polytechnic State University Amateur Radio Club (CPARC) W6BHZ announces that CalPoly students and others will operate from Wake Island OC-053 Aug. 31-Sept. 10, on all bands 160-6 meters, with special emphasis on the new bands. Amateur satellite activity, as well as CW, SSB, and RTTY operation. Usual DXpedition frequencies. Operators are Javier Campos AH6MM, Christopher Lee AB6EV, Kirk Fabrizio AH6ML, Craig Gullickson KC6CEX, Craig Boyer AH9B, and Patrick Guerin NH6UY. QSL route is via the Oklahoma DX Association, P. O. Box 88, Wellston OK 74881. Donations would be greatly appreciated, made out to CPARC, University Union Box 53, San Luis Obispo CA 93407. Callsigns will be announced at a later date.

Edited by Chod Harris VP2ML



America's Premier Weekly Amateur Radio Publication

Islands On The Air

- **Sheffield Island** in Connecticut State Group (NA-136) will be active June 19-20, with WA1PMA, K1WNT, and K1CVF all signing /1C3. The first two will be on SSB and CW, around the IOTA SSB frequencies of 14260, 21260, and 28460 kHz, and 25-30 kHz up on CW. K1CVF will be CW only. QSL home calls.
- **Isle of Barra** (EU-010) will be active June 10-17, by Jim GM0GMN and Graeme GM4KHE, signing **GB0IB** and **GB0OH**. They be on most HF bands, CW and SSB. Graeme plans to make a side trip to Island of Vatersay, signing GM4KHE/M. ([DXNS](#).)
- **Copeland Island** (EU-122) will be active June 11-13, as the Lagan Valley ARS operates **GI4GTY** is on all bands 160-10 meters. QSL RSGB bureau. ([DXNS](#).)

Shortly Noted

- **4U1ITU** UN Geneva will be operated by Niels DL8BDR June 14-17, on SSB and digital modes, on all bands, including the new bands. ([OPDX](#).)
 - **TJ1JD** is FD1SDC; QSL via F1MOW. ([DXPress](#).)
 - **4U1VIC** will be active June 12, by NK4N/OE3JOS.
 - **ZK1AJJ** is JF2MBF, who was recently VR6JJ. He was in the South Cooks, but, transportation permitting, will operate during the next week or two from the North Cooks, with the same callsign. Try 14220 kHz at 0500Z, 10102 at 0900Z, and 28470 kHz at 2300Z. Amateur satellite activity near 145885 kHz. QSL to JA2TBS. Future stops include Tuvalu T2 and Fiji 3D. ([Japan DX News](#).)
 - **5R** Madagascar: Karl 5T5KH moves to 5R at the end of June. ([LNDX](#).)
 - **5T5CJ** ends his Mauritania operation and returns to France at the end of the month. ([LNDX](#).)
 - **Nigeria** is available on Wednesdays, Saturdays, and Sundays, on 14210 khz at 2000Z, with **5N1DMA**, **5N6MRE**, **5N6NEM** and **KB5TFH/5N4**. QSL all but 5N6MRE to Bob Page W4DVJ, 3418 Golf Club Lane, Nashville TN 37215. QSL 5N6MRE via K4ZKG.
 - The **DXCC Backlog** was down to 278 unprocessed applications at the end of May, with 48,803 QSL cards. Applications being sent out at the end of May were received about 6 weeks earlier, with many previously computerized records going out even faster. The DXCC desk received 22% fewer applications during the first five months of 1993 compared to 1992; the number of QSL cards submitted was essentially the same.
 - **SSB Net** check-ins: **14160 kHz** (21Z): **OX3KM**; **14227 kHz**: (11,21Z) **XX9AS** **J5UAI** **9H4B**; **14247**: (23Z) **T94CR** **CE0ZIS**; **14256**: (2330Z) **YI4MX** **4K4N**; **21335**: (14Z) **S21ZG** **TN1AT**; **21355**: (18Z) **5X1A** **N9MDW/5N6** **J5UAI** **ZS9A**.
 - **RTTY**: **ZK1AJJ** on the North Cooks (see above) likes 14081 kHz, listening up. Spots: **KG4HG** 14089 0045Z; **TR8MD** 14087 1645Z; **A22EX** 21086 1730Z; **5T5KH** 21087 1940Z; **5X1C** 14087 2155Z; **TU2BB** 21082 0920Z; **YI1AL** 21082 1200Z; **P29JA** 14085 1212Z; **ET3SID** 21089 1715Z; **CE0ZIS** (Juan Fernandez) 14090 0120Z.
 - The International Telecommunication Union (ITU) now has two beacons running 24 hours a day with 1 kw into omnidirectional antennas. **VK4IPS** is in Brisbane, Australia, and **LN2A** is in Sveio, Norway. Schedule is as follows:
- | Minutes after the hour | VK4IPS | LN2A |
|------------------------|----------|-----------|
| 00 20 40 | 5470 kHz | 14405 kHz |
| 04 24 44 | 7870 | 20945 |
| 08 28 48 | 10407 | 5470 |
| 12 32 52 | 14405 | 7870 |
| 16 36 56 | 20945 | 10407 |
- Thanks [ARRL Letter](#).

Propagation

Forecast and Historical Data

Day	Forecast	27 Days Before	55 Days Before
June 1993	Date	Flux A K	Date Flux A K
11	High Normal	5/15 104 08/12 3	4/17 96 08/10 2
12	High Normal	5/16 99 13/12 1	4/18 106 16/19 2
13	High Normal	5/17 96 16/13 4	4/19 111 09/11 2
14	High Normal	5/18 91 04/08 2	4/20 119 23/25 3
15	High Normal	5/19 91 10/10 3	4/21 119 25/27 3
16	High Normal	5/20 91 11/10 2	4/22 117 15/17 3
17	Above Normal	5/21 91 02/04 1	4/23 122 09/11 2
18	Above Normal	5/22 92 01/05 1	4/24 129 07/08 2
19	Above Normal	5/23 95 01/04 0	4/25 125 13/13 1
20	Above Normal	5/24 98 02/03 1	4/26 123 04/07 1
21	Above Normal	5/25 100 00/03 0	4/27 118 03/05 1
22	Above Normal	5/26 108 02/04 0	4/28 114 03/05 2
23	Low Normal	5/27 120 15/18 2	4/29 107 10/09 3
24	Low Normal	5/28 126 15/20 3	4/30 106 11/12 2
25	High Normal	5/29 129 09/12 2	5/1 103 06/10 0
26	Above Normal	5/30 140 03/06 0	5/2 103 05/07 2
27	Above Normal	5/31 138 05/06 2	5/3 107 10/10 2

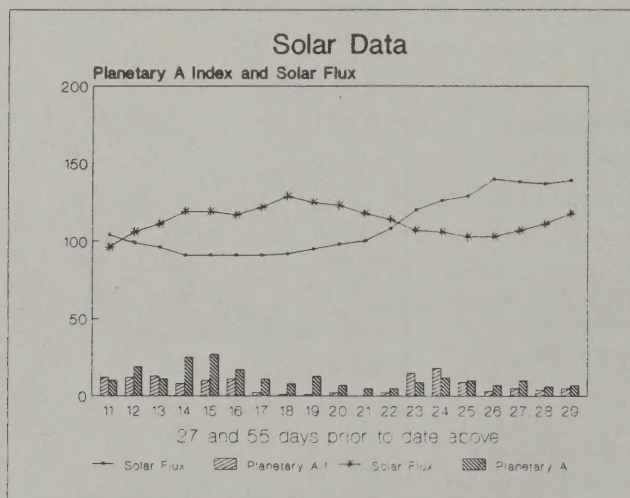
Propagation Watch

As expected, geomagnetic activity was high the weekend of June 5-6. The active geomagnetic fields depressed maximum useable frequencies (MUFs), essentially eliminating most 15-meter openings. The polar and high-latitude paths were particularly hard hit, making contacts with the Eritrea E35X operation very difficult.

Although the geomagnetic activity has dropped off, the long days in the northern hemisphere as we approach the summer solstice June 21st spell increased absorption, and low MUFs. The lower bands continue to be plagued by seasonally high levels. This combination squeezes DXing into the middle bands: 30, 20, and 17 meters.

Of the three bands, 17 meters offer the best DX openings. It also acts as an early indicator of possible 15-meter openings. Look for shortening skip on 17, which will often be followed by a 15-meter opening in the same direction. DXers without 17-meter capabilities will spend most of their time on the 20-meter band.

This is also prime E-skip season, with frequent six-meter short-skip openings, and maybe some multi-hop E-skip openings over longer distances. Good hunting!



QSLs Received

- From managers: ZD9BV (W4FRU 4 MOS); 9J2FR (I2ZZU 1 MO); VS6WO (K9EC 3 MOS); ZK3RW (ZL1AMO 1 MO); PY0TSN (PY3ASN 6 MOS); PA3CXC/ST0 (PA3CXC 1 MO); 3X0INU (F6FNU 3 WKS); TA2BK (DJ0UJ 1 MO); UZ4WWQ (AA4NU 2 WKS); 5R8DJ (DL7FT 2 MOS); 5X5WR (DJ5RT 1 MO).
- Direct: 4S7EF (1 MO); TR8LVP (3 MOS); BV2TA (2 WKS!);
- Long-awaited QSLs: PJ2/OH6RI 3 years, 4 months.

Ham Tower Noxious, Part III

by David and Sherri Brower WA4NST & N4XLF

David WA4NST and Sherri N4XLF Brower of Vero Beach, Florida, won their appeal of the Code Enforcement Board's order finding them in violation of the Laws and Ordinances of Indian River County that limit the height of towers. In the code enforcement appeal, the court found that the local ordinances, which absolutely limit tower heights to 70 feet, were preempted by PRB-1 and section 125.0185(1), the Florida statute that incorporates PRB-1 as state law. Quoting the opinion, written by Judge J. Kenney, "We conclude that the ordinances in question are nothing more than flat and arbitrary prohibitions without any attempt to consider, much less balance, legitimate community concerns, with similarly legitimate and legally recognized rights, of amateur radio licensees."

The appeal of the civil trial that found the radio transmissions to be a "noxious and offensive activity and the appearance of the tower and antenna an annoyance and nuisance to the neighborhood" is still pending. The issue in this case is the broad interpretation of the deed restrictions to prohibit amateur radio. Our tower and antennas are standing but we are still enjoined from further radio transmissions from our home.

Many thanks to all who have written to the ARRL, government officials, ham radio publications, and sent letters to encouragement to us. A special thanks goes out to James H. Laseter N4ZYX for acting as Trustee for our Legal Defense Fund. Your generous contributions have helped cushion this tremendous financial burden. We will not give up our fight to protect the future of our great hobby! Thanks for your continued support.

Mexico Amateur Radio Convention

The Guanajuato Radio Club in Mexico is sponsoring the 33rd National Congress July 15-17, in Guanajuato, in Central Mexico. The host hotel is the Hotel Real de Minas, phone 91-473-2-14-60, or fax 91-473-2-15-08, c/o Seronita Araceli Mares. For more information on the convention, contact the radio club at Apartado Postal 164, Guanajuato GTO, CP 136000, Mexico.

RSGB International HF Convention

The Radio Society of Great Britain has changed the dates of the 1993 HF Convention. It is now scheduled for Oct. 8-10, at the Beaumont Conference Centre, near London's Heathrow Airport. For more information, send an addressed envelope to the HF Committee, P. O. Box 599, Hemel Hempstead, Herts HP3 0SR, United Kingdom.

B • A • N • D • P • A • S • S

Key to Bandpass: Callsign, frequency, UTC, day of the month, state. * = long path. P = packet.
All "portable" calls listed with country of operation first, regardless of format used on the air.

S	M	T	W	T	F	S
23	24	25	26	27	28	29
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26

RTTY

4L1BR	14087	2206	5	FL
4S7EA	14088	0036	4	FL
5X1C	21084	2155	31	MN
9K2EC	14085	0048	2	FL
9K2WA	21091	1852	31	MN
9K2WA	14087	2156	2	FL
EA8RA	14087	0218	31	FL
FM5GD	14089	0055	2	FL
J5UAI	21092	1602	1	FL
J5UAI	14083	2319	31	MI
PZ1BS	14090	2139	1	FL
UL7PBY	14090	0042	4	FL
UO5OC	14084	2120	4	FL
V44KA1	14085	0221	31	FL

80 Meters

9M2AX	3501	1245	29	CA
HL9UH	3501	1246	29	CA
VK4CSS	3510	1220	23	CA

75 Meters

VK6ACY	3799	1248	30	CA
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40 Meters

4K1F	7013	0940	26	CA
9X5HG	7001	0125	1	IA
A71CW	7006	2202	4	FL
FK8GJ	7004	1315	3	CA
HV3SJ	7008	0040	2	FL
TR8XX	7007	0455	26	AZ
VK6HD	7010	1203	29	TX
VQ9JT	7012	0123	27	AL
ZA1J	7006	0310	2	GA
ZP5JCY	7005	0215	1	FL

30 Meters

3D2QB	10104	0620	4	MI
9K2MU	10101	0135	3	GA
A71CW	10102	0110	1	MI
CO2VG	10107	0638	4	MI
P29JA	10104	1241	2	MI
RC2CO	10106	2145	5	FL
TZ6VV	10103	2353	24	VA
Z21HS	10105	0521	25	CA
ZB2FK	10106	2345	25	NY

20 Meter CW

3D2AG	14024	0445	18	MA
4J4JJ	14023	2237	26	VA
4K2BY	14014	0814	31	OR
4K4D	14026	0053	1	ID
4K4N	14026	1500	1	MI
4L1AB	14027	0145	3	GA
4L8A	14006	2145	2	FL
4N5GX	14009	2040	17	MN
4S7WP	14022	0033	4	FL
5Z4JD	14025	0250	21	CA

6O/G4AAL	14025	1838	24	NH
7P8SR	14025	0608	31	OR
7Q7XX	14006	2256	30	CA
7Z2AB	14001	2205	2	FL
9D5CW	14014	0100	3	GA
9J2BO *	14019	1255	26	IA
9K2MU	14018	2348	23	NH
9X5HG	14009	0445	1	IA
A71CW	14022	0045	31	GA
AP5A	14026	0033	31	MI
BV4CT	14021	1621	28	ID
BV7BB	14003	1223	1	VA
C91J	14025	0547	1	AZ
CN8BK	14036	0110	3	GA
CT3FT	14025	0646	31	OR
EV7AA	14040	0210	1	FL
EV9A	14027	0225	1	NH
FK8AL	14026	0655	28	WV
FK8GJ	14009	0640	24	CA
JU5DX	14007	1922	26	NH
JW0F	14023	0123	26	VA
JW6MY	14024	1457	29	ID
OD5/	14004	0200	25	OH

SP7LSE	14012	1140	26	IA
OX3MZ	14016	0307	26	VA
RH8BK	14014	1030	1	FL
SV5TH	14012	0055	4	GA
T5THW	14010	0120	3	GA
T95VO	14009	2250	26	NV
T95X	14006	1913	26	NH
TA2BD	14016	0221	31	OR
TA2FE	14014	2124	27	CA
TA3D	14017	0210	27	IA
TU2MA	14026	2308	2	FL
TU2XZ	14022	0205	3	GA
UA2FL	14004	0045	31	GA
UI8ACP	14007	2024	22	NH
UI8IZ	14004	2354	23	NH
UJ8JA	14008	1401	24	CO
UM8NU	14010	0025	1	GA
UN9LM	14020	0525	28	IA
XQ0X	14018	2300	2	GA
XU7VK	14021	2216	27	ID

YN/	14005	2355	23	NH
SM0OIG	14013	0109	28	MI
YN1CC	14025	0130	3	GA
ZA1AB	14005	0155	3	GA
ZA1J	14021	2226	25	VA

20 Meter SSB

3C1TR	14248	0515	28	CA
3D2TL	14196	1101	31	FL
4K4D	14260	2331	28	MI
4N5GX	14205	0155	27	MN
5Z4BI	14195	0415	30	IA
7X2DG	14161	0507	1	MA
9K2HA	14218	2315	28	IA
9K2ZZ	14208	0017	31	IL
9X5HG	14168	0230	26	IA
A35CT	14247	0514	29	NE
A41KB	14250	0527	31	CA
BV4OB	14226	1825	19	NE

C30EJA	14191	2150	28	IA
C31HK	14208	0551	3	MI
ET3SID	14250	0343	28	CA
FR5DX	14274	0415	1	MI
H44JS	14178	0705	30	OR
JW5NM	14190	0050	2	MI
JW6MY	14203	1728	28	MN
KG4HG	14187	0955	30	NJ
P29AI	14257	1120	30	NJ
P29CN	14214	0632	30	NE
T30JH	14247	0205	27	IA
T95X	14202	2315	2	GA
V51X	14185	0718	30	MI
V85OJ	14227	1446	29	FL
XU3UN	14200	1639	30	IL
XU6WV	14190	1139	28	MD
XX9GD	14188	1310	31	IA
Y11DZ	14228	0305	2	MI
Y11MH	14195	0115	4	GA
YJ0ATL	14193	1119	27	NC

17 Meter CW

3B8CF	18085	1423	1	NH
3B8FG	18070	0346	3	MI
9H3XX	18073	1712	1	FL
9H3XX	18073	2235	2	GA
9K2MU	18086	2253	24	NS
9M2AX	18085	1822	30	NH
A71CW	18069	2134	29	MN
EV8A	18079	1955	31	GA
FP4EK	18078	2324	23	NS
HC5AI	18075	2245	2	MI
JT1BH/5	18071	0028	1	FL
JW5NM	18074	2105	16	MN
OX3XR	18078	1344	31	MI
RB5GW *	18069	0352	25	CA
TA2BD	18072	0428	1	MA
UD6DKW	18072	0130	3	GA
UJ8JA	14003	0205	1	ID
XQ0X	18070	0144	29	NH
YO8FR	18074	2131	1	FL

17 Meter SSB

5X1C	18111	2304	30	IL
HK0OEP	18130	2213	25	NJ
J28BM	18145	2032	30	MN
UH8EA	18122	1307	25	NS
UJ8RA	18136	1308	23	NS
UM8MCW	18122	1248	25	NS
XX9MD	18130	1220	25	NS
ZB2FK	18133	2243	24	NS

15 Meter CW

4J4JJ	21018	2126	26	MN
4K2BY	21002	1640	23	CA
7Q7LA	21022	1427	1	ID
9V1YC	21030	1630	23	IL
A71CW	21014	1455	26	IA
HS0ZAA	21021	1354	31	NH
JT5DX	21025	0315	1	IA
RM8MW	21011	1639	23	IL
S21ZG	21003	1626	22	NH
TA2BD	21006	1736	1	FL

TR8YA	21040	2038	26	NY
TU2MA	21019	1300	26	IA
UJ8JI	21004	1725	23	CA
VQ9AC	21030	1717	1	VA
VS6BG	21028	2253	30	IL
VU2TTC	21004	1539	31	MN
YN/	21018	2134	1	FL
SM0OIG				
ZA1Z	21021	1709	1	FL

15 Meter SSB

4L5A	21288	1639	26	MD
5H3EM	21227	2124	30	CA
5X1A	21232	2026	31	IA
6W6JX	21245	1915	23	NH
9K2ZZ	21210	1855	24	NH
9M6MO	21260	0520	31	CA
9Q5CME	21340	2110	30	CA
9V1WW	21245	1728	31	MI
A92BE	21298	2205	30	IA
BV2KI	21300	1648	24	NC
EA9IE	21297	1814	23	NH
EC9LW	21200	2255	2	GA
ET3SID	21240	1256	24	MD
ET3YU	21227	2124	30	CA
HV4NAC	21305	1841	26	NY
HZ1AB	21245	1840	24	NH
J5AAB	21212	1745	31	MI
S21A	21322	1515	26	IA
S92SS	21280	2321	30	IL
SV1DT	21245	1910	23	NH
T95X	21305	2239	31	MI
TA5C	21277	1822	23	NH
TU2QW	21327	1444	31	NY
UI8ZAA	21210	0224	31	IL
UI8ZAA	21326	1813	23	NH
VQ9AC	21330	1800	31	IA
VQ9ET	21350	1751	22	MD
VR6MW	21422	0028	31	IL
VS6CT	21227	2338	25	MD
VU2DK	21297	1459	26	NC
VU2DNL	21275	1508	26	NC
XX9GD	21304	0545	31	CA
XX9GD	21304	1500	31	IA
Y11DZ	21263	1603	26	MD
Y11MH	21263	1559	26	MD
YJ0ATL	21270	0400	25	CA
ZC4ST	21335	1618	31	CA
ZS9A	21353	1258	23	MD

12 Meter CW

A71CW	24895	1216	31	FL
A71CW	24901	2256	31	MA
OD5/	24900	1534	31	MI
SP7LSE				
VQ9AC	24904	1510	31	MI

10 Meter CW

5Z4FM	28015	1833	1	FL
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10 Meter SSB

V31DE	28489	2301	31	MI
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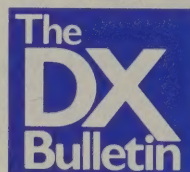
Current and Future DXpeditions

(Changes and hot info in boldface.)

DXCC Country	Prefix	Callsign	Dates	Issue
Aland Island	OH0	DL9FAZ	to June 12	I691
American Samoa	KH8	HB9TL	June 18-20	I684
Bahrain	A9	A92WH	Apr. 15-June 30	I683
Belarus	UC	EV8A	Now-June 25	I691
Belau	KC6	JAs	Aug. 8-13	I691
Cambodia	XU	XU7VK	to June 30	I686
Dodecanese Islands	SV5	N6MZ	June 19-20	I691
Equatorial Guinea	3C1	TR	SSB Nets	I689
Gambia	C56/	DL7s	June 14-31	I687
Gough Island	ZD9	ZD9BV	21313 1800Z	I690
Lebanon	OD5/	SP7LSE	to Aug. 1	I686
Libya	5A	TBA	Very soon!	I681/2
Liechtenstein	HB0/	HB0/Fs	July 17-24	I690
Macao	XX	XX9AS	21177 1300Z	I691
Madagascar	5R	5R8DG	7015 kHz 0250Z	I690
Micronesia	V6	V63SM	June 16-20	I690
Montserrat	VP2M	/YLS	July 25-30	I691
Nigeria	5N	several	14210 2000Z	I692
North Cook Islands	ZK1	AJJ	June 11-26?	I692
Penguin Islands	ZS1	DLs	July 24-Aug. 3	I685
Peter I Island	3Y		Feb. 1-17	I685
St. Pierre & Miquelon	FP/Ws		June 17-24	I684
	Ws/FP0		July 9-13	I686
St. Paul Island	CY	WV2B/CY9	July 9-12	I686
San Felix	CE0	XQ0X	CW now	I681
Southern Sudan	ST0	PA3CXC	to Sept.	I690
Taiwan	BV/	N4VA	to July	I676
Thailand	HS0	N4TMW/	June 19-July 2	I687
Tonga	A3	by HB9TL	June 10-13	I684
Uganda	5X	5X1B	21030 1900Z	I683
United Nations HQ	HQ	4U1ITU	June 14-17	I692
Wake Island	KH9		Aug. 31-Sept. 10	I692
Walvis Bay	ZS9	by DLs	Aug. 4-13	I685
Western Samoa	5W	by HB9TL	June 14-17	I684

Resident Amateurs on Regularly

DXCC Country	Callsign	Freq.	UTC
Albania	ZA1Z	20M CW	0200Z
Albania	ZA1J	14026	0130Z
Algeria	7X2DG	14160	0500Z
Asiatic Russia	4K4N	14027	0100Z
Azerbaijan	UD6DKW	18073	0130Z
Bahrain	A92BE	21300	1930Z
Bangladesh	S21A	21300±	1500Z
Bosnia-Herzegovina	T95X	14007	2300Z+
Cambodia	XU7VK	20M CW	2300Z
Central Africa	TL8NG	10105	0500Z
Chagos	VQ9AC	10103±	2230Z
Ecuador	HC5AI	18075	2245Z
Kuwait	9K2MU	10101	0130Z
Kuwait	9K2MU	14039	0000Z
Mauritius Island	3B8CF	14035	0300Z



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Contributors

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Operating Events and DX Gatherings

Dates	Event	Reference:
June 12-13	ANARTS WW RTTY Contest	<u>RTTY Journal</u>
June 19-20	All Asian CW Contest	<u>CQ</u>
July 29-Aug. 1	Northwest DX Convention	<u>I689</u>
July 24-25	Islands On The Air Contest	
August 27-29	International DX Convention New Orleans	

Qatar	A71CW	24900±	23, 12Z
Qatar	A71CW	15M CW	1500Z
Qatar	A71CW	10101	0100Z
Qatar	A71CW	18075±	2130-0100Z
Rwanda	9X5HG	20M CW	2100Z+
San Felix Island	XQ0X	18070	0145Z
Svalbard	JW6MY	14210±	1730Z
Svalbard	JW0F	20M CW	0120Z
Taiwan	BV4CT	14025	1500Z
Tajikistan	UJ8JI	21007±	1730Z
Tajikistan	UJ8JA	14006	0000Z
Uzbekistan	UI8QU	18074	2100Z
Zimbabwe	Z21HS	10104	0500Z